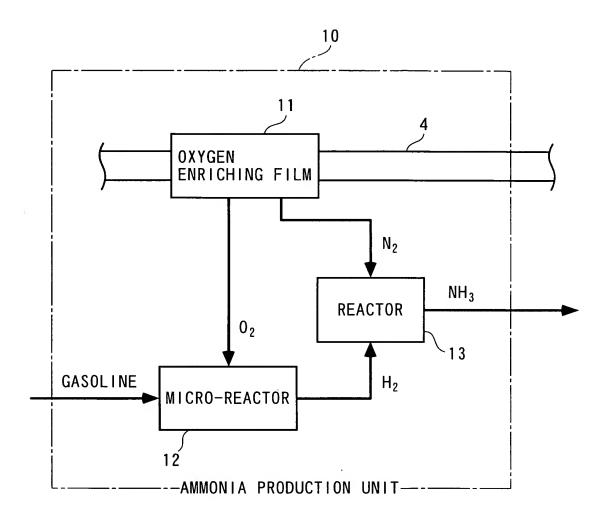
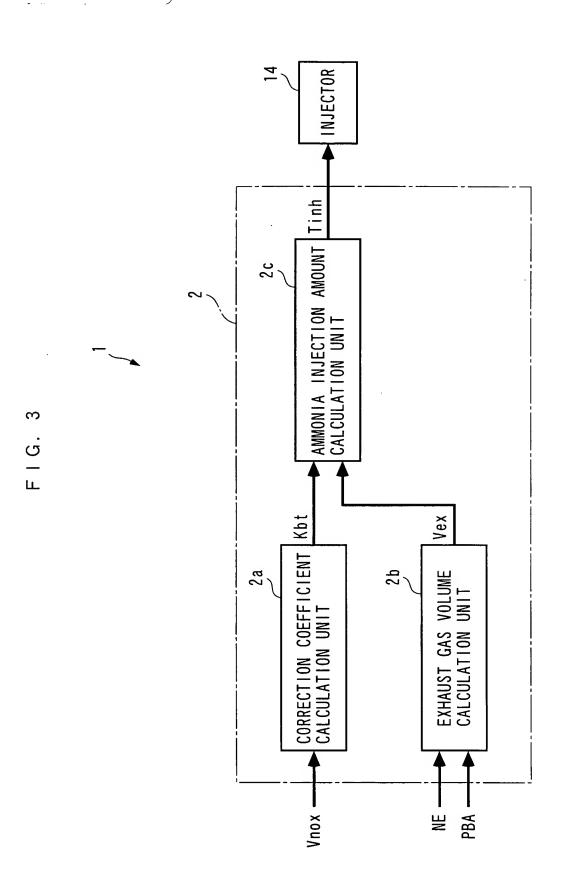
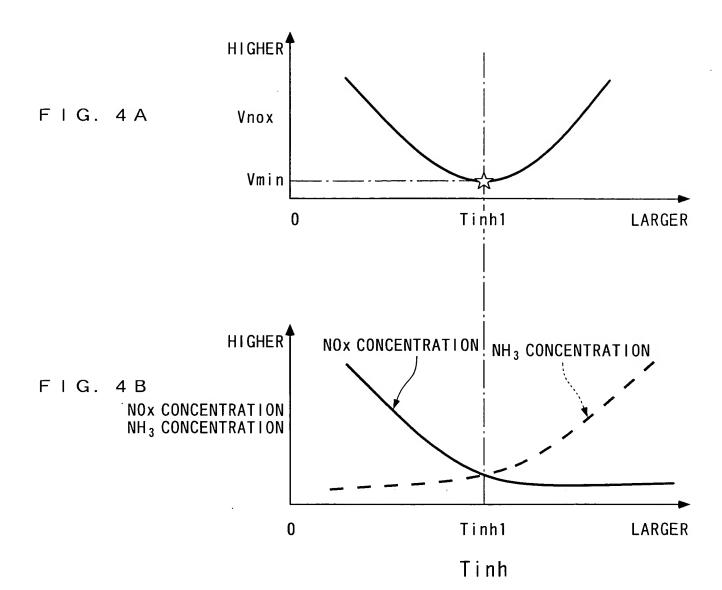
.

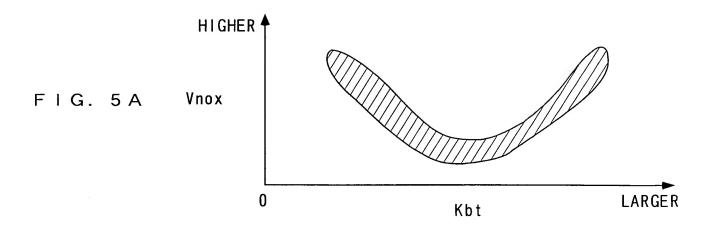
F I G. 2

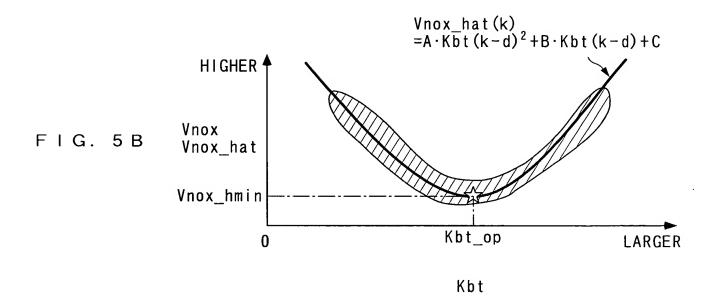


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F | G. 6

$$Vnox_{hat}(k) = A \cdot Kbt(k-d)^{2} + B \cdot Kbt(k-d) + C \qquad \cdots \qquad (3)$$

$$\theta(k) = \theta(k-1) + KP(k) \cdot ide(k) \qquad \cdots \qquad (4)$$

$$\theta$$
 (k)^T = [A, B, C] $\cdots (5)$

$$ide(k) = Vnox(k) - Vnox_hat(k)$$
 (6)

$$Vnox_hat(k) = \theta(k-1)^{T} \cdot \zeta(k) \qquad \cdots \qquad (7)$$

$$\zeta (k)^{T} = [Kbt (k-d)^{2}, Kbt (k-d), 1]$$
 (8)

$$KP(k) = \frac{P(k) \cdot \zeta(k)}{1 + \zeta(k)^{T} \cdot P(k) \cdot \zeta(k)} \qquad \cdots \qquad (9)$$

$$P(k+1) = \frac{1}{\lambda_1} \cdot \left(I - \frac{\lambda_2 \cdot P(k) \cdot \zeta(k) \cdot \zeta(k)^{\mathsf{T}}}{\lambda_1 + \lambda_2 \cdot \zeta(k)^{\mathsf{T}} \cdot P(k) \cdot \zeta(k)} \right) \cdot P(k) \qquad \dots \qquad (1 \ 0)$$

I : UNIT MATRIX

 $\lambda_{\text{1}},\,\lambda_{\text{2}}$: WEIGHT PARAMETERS

FIG. 7

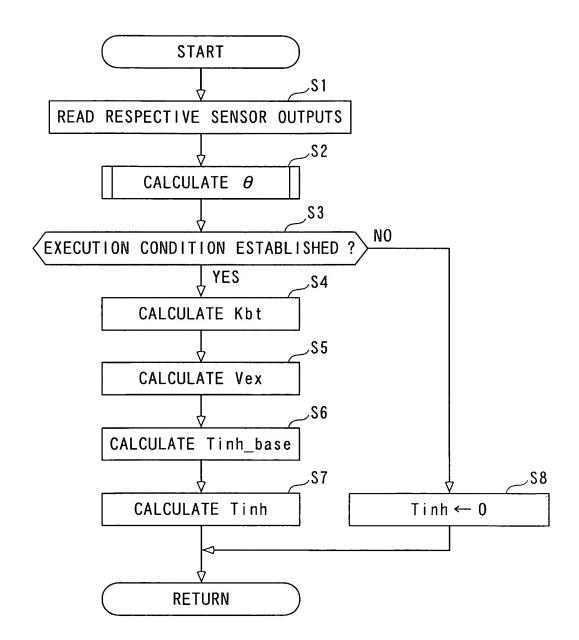
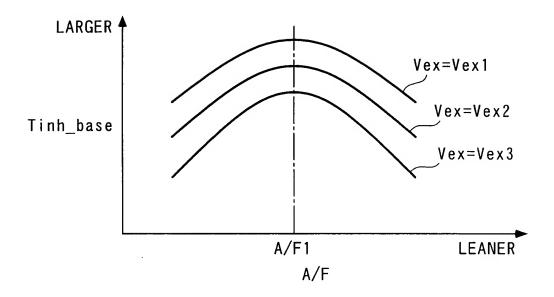
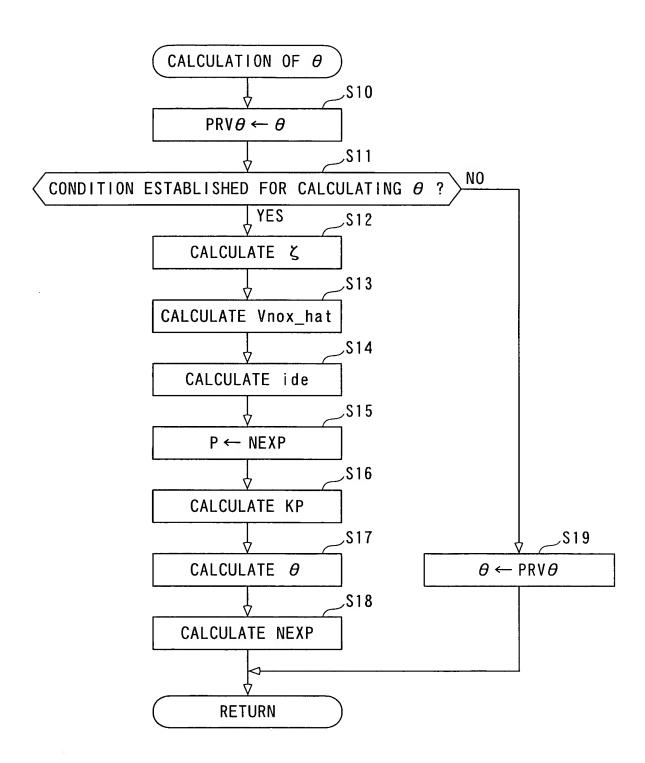
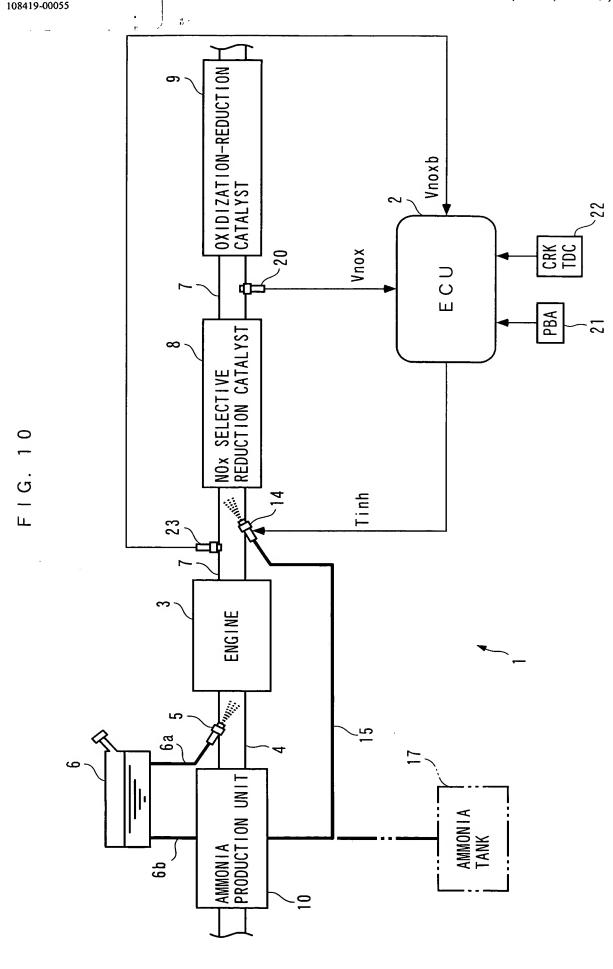


FIG. 8



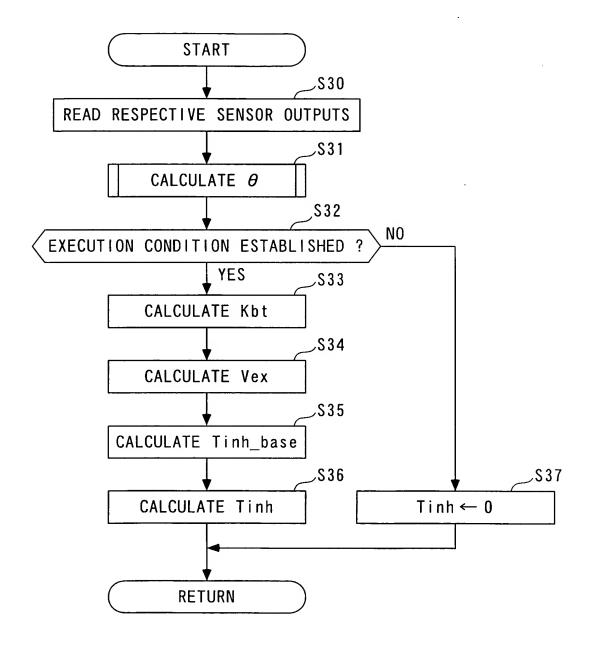
F I G. 9





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FIG. 11



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FIG. 12

